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P/N: 001-89005 [illegible]

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Model GENERAL

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)
Manganese Dioxide Lithium Battery(CR)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name: HITACHI MAXELL,LTD.

Address (Number, Street, City, State, and ZIP Code):
5 Takumidai
Ono-shi, Hyogo 675-1322, Japan

Emergency Telephone Number: (0794) 63-8051

Telephone Number for Information: (0794) 63-8054

Date Prepared:

Signature of Preparer (optional):

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Manganese Dioxide (MnO_2)				27 wt%
Lithium Metal				2 wt%
Organic Electrolyte				9 wt%

Post-it® Fax Note 7671 (Indicated)

To Ms. Asia Chan	Date 16/3	# of pages ▶	
Co./Dept. IDT	From IJ-1		
Phone #	Co. Maxell		
Fax # 2365-4827 2364-3882	Phone #		
	Fax #		

Section III — Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H_2O = 1)	N/A
or Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water: N/A

Appearance and Odor: N/A

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
N/A			

Extinguishing Media: Extinguisher for alkaline metal fire

Special Fire Fighting Procedures: No water

Unusual Fire and Explosion Hazards: Do not recharge, disassemble, heat above 212°F, incinerate or expose contents to water.

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Section V — Reactivity Data

Model: GENERAL

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (*Materials to Avoid*)

Hazardous Decomposition or Byproducts

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? N/A Skin? N/A Ingestion? N/A

Health Hazards (*Acute and Chronic*) N/A

Carcinogenicity: NTP? N/A IARC Monographs? N/A OSHA Regulated? N/A

Signs and Symptoms of Exposure N/A

Medical Conditions Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures N/A

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken In Case Material Is Released or Spilled N/A

Waste Disposal Method Bury in landfill in accordance with appropriate federal state and local regulations.

Precautions to Be Taken In Handling and Storing Store in cool place but prevent condensation on cells or batteries. Elevated temperature can result in a shortened battery life.

Other Precautions

Section VIII — Control Measures

Respiratory Protection (*Specify Type*) N/A

Ventilation	Local Exhaust	N/A	Special	N/A
	Mechanical (General)	N/A	Other	N/A
Protective Gloves		N/A	Eye Protection	N/A
Other Protective Clothing or Equipment		N/A		
Work/Hygienic Practices				

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